

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 July 2004 (01.07.2004)

PCT

(10) International Publication Number
WO 2004/054353 A3

(51) International Patent Classification⁷: **A01K 47/02**

(21) International Application Number:
PCT/IB2003/006496

(22) International Filing Date:
12 December 2003 (12.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/433,495 13 December 2002 (13.12.2002) US

(71) Applicant (for all designated States except US): **6116469 CANADA INC.** [CA/CA]; 303 Charlotteville West 1/4 Line RR#1, St. Williams, Ontario NOE 1PO (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BIGHAM, Ian, B.** [CA/CA]; 303 West 1/4 Line RR#1, St. Williams, Ontario NOE 1PO (CA). **SPERLICH, Andreas, W.** [CA/CA]; 909 Front Road RR#2, St. Williams, Ontario NOE 1PO (CA).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

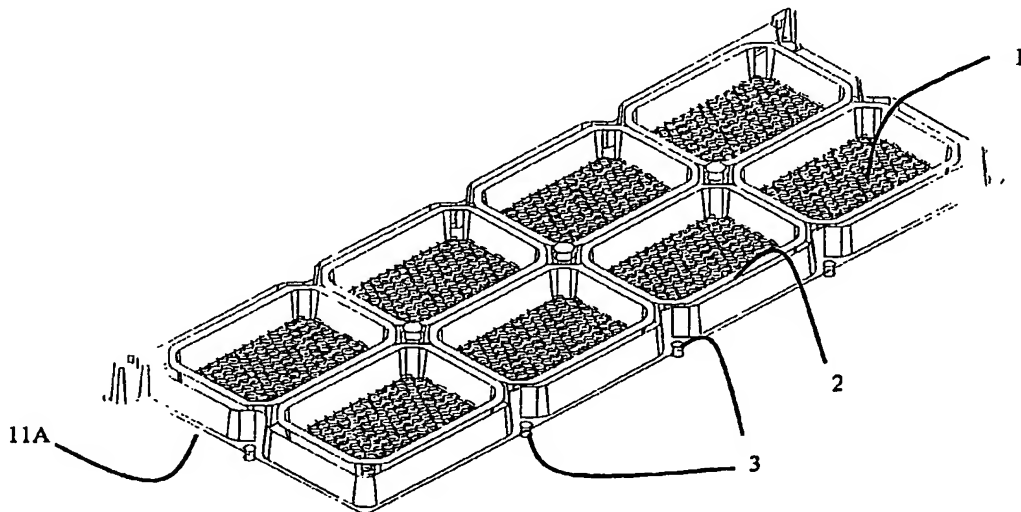
Published:

- with international search report
- with amended claims and statement

(88) Date of publication of the international search report:
2 December 2004

[Continued on next page]

(54) Title: DEVICE FOR THE PRODUCTION OF COMB HONEY



Frame Half A

(57) Abstract: A device for the collection and packaging of comb honey comprises a frame structured to fit within a honey collection section of a beehive, such as a beehive super. The frame has a plurality of cavities for collecting the honey. The frame has separation structures between the cavities to facilitate separation of the cavities from the frame. In another embodiment, the frame has opposing sides and a plurality of outwardly facing cavities in each of the sides for collecting the honey. In another embodiment, the frame comprises first and second frame halves on opposing sides of the frame. Each of the frame halves includes a backside that is enclosed by the frame to keep bees away from the backside.



Date of publication of the amended claims and statement:
17 February 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

AMENDED CLAIMS

[received by the International Bureau on 15 December 2004
(15.12.2004);
original claims 1, 7 and 17 amended; remaining claims unchanged (3 pages)]

1. A device for the collection and packaging of comb honey comprising a frame structured to fit within a honey collection section of a beehive, the frame having a plurality of cavities for collecting the honey, the cavities formed integrally with each other, and separation structures to facilitate separation of the cavities from the frame.
2. A device according to claim 1 wherein the separation structures comprise discontinuous cuts in the frame.
3. A device according to claim 1 wherein the frame is formed from plastic.
4. A device according to claim 1 further comprising a lid structured to combine with the separated cavity to create a package that encloses the collected honey.
5. A device according to claim 4 wherein the package includes means for mechanically fastening the lid to the cavity.
6. A device according to claim 1 wherein the frame includes spacing structures to maintain the proper bee spacing between the frame and adjacent frames in the honey collection section.
7. A device for the collection and packaging of comb honey comprising a frame structured to fit within a honey collection section of a beehive, the frame having opposing sides and a plurality of outwardly facing cavities in each of the sides for collecting the honey, the cavities formed integrally with each other on opposing sides of the frame.
8. A device according to claim 7 wherein the frame includes spacing structures to maintain the proper bee spacing between the frame and adjacent frames in the honey collection section.

9. A device according to claim 8 wherein the spacing structures comprise raised buttons on the side surfaces of the frame.
10. A device according to claim 7 wherein the frame includes one or more support structures to support the frame within the honey collection section.
11. A device according to claim 10 wherein the support structures comprise tabs structured to engage rabbets of the honey collection section.
12. A device according to claim 7 wherein the frame is formed from plastic.
13. A device according to claim 7 wherein the cavities have a honey comb pattern to provide a foundation for the bees to build the comb on.
14. A device according to claim 7 wherein the frame has a length, from end to end, equal to the inside length of the honey collection section less an allowance for bee space between the frame ends and the honey collection section.
15. A device according to claim 7 wherein the frame has a height, from top to bottom, equal to the inside height of the honey collection section less an allowance for bee space between the frame bottom and the honey collection section.
16. A device according to claim 7 wherein the frame has a width, from side to side, such that a plurality of the frames will fill the honey collection section, with an allowance for bee spaces between the frames, and between the frames and the sides of the honey collection section.

17. A device for the collection and packaging of comb honey comprising a frame structured to fit within a honey collection section of a beehive, the frame comprising first and second frame halves on opposing sides of the frame, each of the frame halves having a plurality of outwardly facing cavities for collecting the honey, the cavities formed integrally with each other in each of the frame halves, and each of the frame halves including a backside that is enclosed by the frame to keep bees away from the backside.

18. A device according to claim 17 wherein the frame includes at least one attachment structure for attaching the frame halves together, and the attachment structure is structured so that the frame halves can be detached from each other after collection of the honey.

19. A device according to claim 17 wherein the frame has separation structures to facilitate separation of the cavities from the frame.

20. A device according to claim 17 wherein the frame includes spacing structures to maintain the proper bee spacing between the frame and adjacent frames in the honey collection section.

STATEMENT UNDER ARTICLE 19(1)

Claims 1, 7 and 17 have been amended to recite that the cavities for collecting honey are formed integrally with each other.